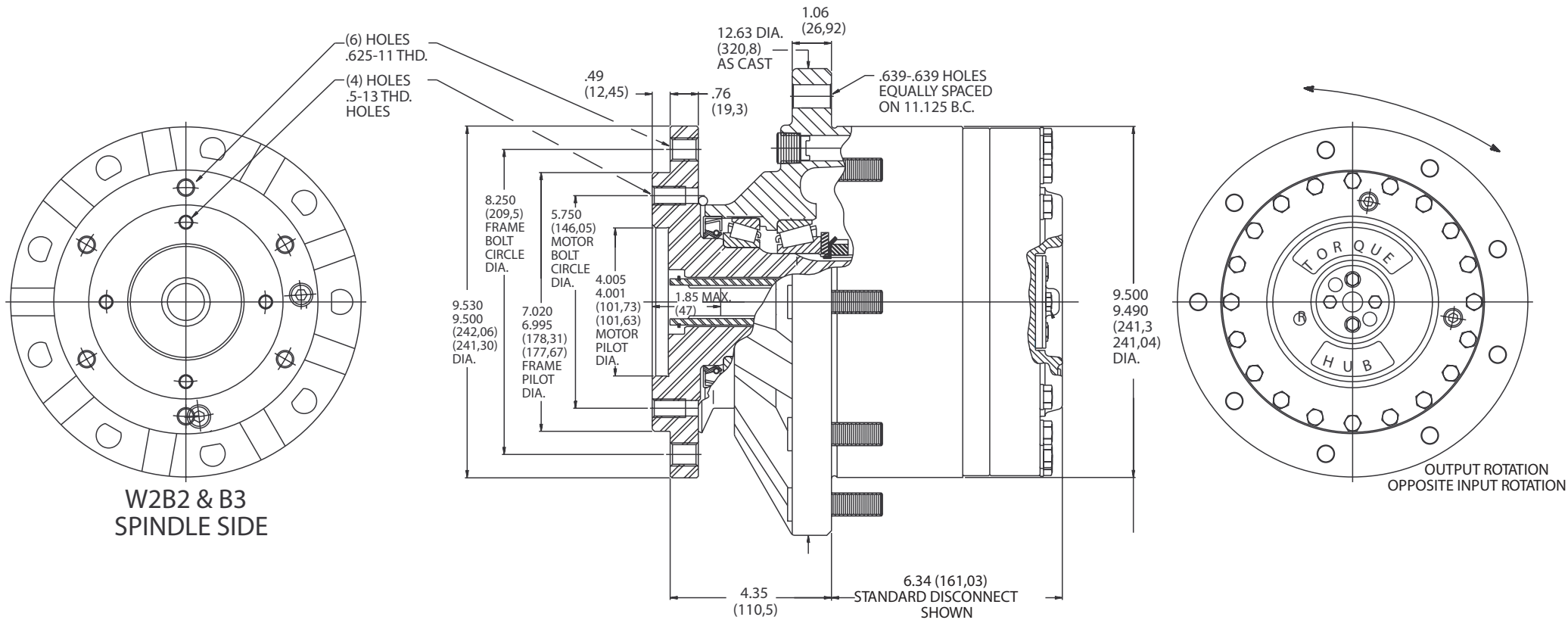


TORQUE-HUB®
Planetary Final Drives



oerlikon
fairfield

Catalog prints are representative of the units.

Before final design request a certified print from Fairfield.

NOTE: MM SHOWN IN ()
MOTOR CAVITY DIMENSIONS VARY WITH MODEL

OTHER MODELS ALSO AVAILABLE
FAIRFIELD BRAKE AVAILABLE

W2B2

Performance Data

| Continuous | Intermittent | Peak |
|--------------|--------------|--------------|
| 25,000 lb-in | 50,000 lb-in | 60,000 lb-in |
| 2,087 lb-ft | 4,167 lb-ft | 5,000 lb-ft |
| 2,817 Nm | 5,633 Nm | 6,790 Nm |
| 287 kg-m | 573 kg-m | 688 kg-m |

For ultimate horsepower capacities, contact a Torque-Hub® representative.

Speed Limitations

Input Speed: 4,000 RPM Maximum Intermittent
Horsepower: Contact Fairfield

Weight

Approximately 149 lbs (68 kg)

Note: Specific models will change weights.

W2B2 Model Formula

W – Torque-Hub® Wheel Drive

2 – Series

Oil

Fill to half full with EP-90 oil on most applications.

Approximate Volume 40 oz. (1,184 cm³)

Note: Oil level and type will vary with specific model and application.

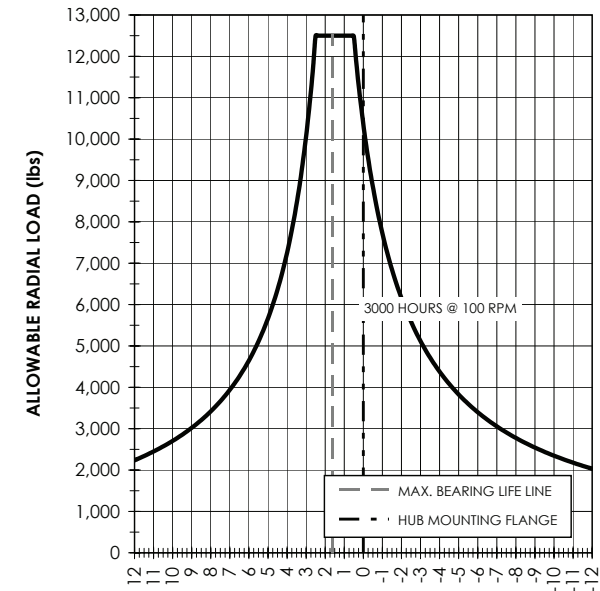
Conditions of Bearing Curve

Life = 3,000 hours B-10
Speed = 100 RPM output

To adjust for loads and speeds other than shown on curve:

$$\text{Adjusted Life (hrs)} = 3,000 \left(\frac{100 \text{ RPM}}{\text{Speed (Adjusted)}} \right) \times \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$

Bearing Curve



ALLOWABLE RADIAL LOAD (lbs)

DISTANCE FROM HUB MOUNTING FACE (in)

W 2 B2 F 0 3 28 X

Special Features

N – Special antisengage for Nichols 110 motor only (spacer placed in coupling)

X – Antisengage (spacer placed in coupling)

Stud

0 – Not included
F – 5/8-18 by 2.438 in.

Input

3 – 13T, 16/32 Spline
8 – 15T, 16/32 Spline

Brake

0 – Not Included
Z – Seal Boot

Reduction

13 – 13.30:1
20 – 19.86:1
25 – 24.82:1
28 – 28.22:1
34 – 33.83:1
37 – 36.64:1
43 – 42.65:1
49 – 49.03:1
55 – 54.86:1
68 – 68.00:1

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Fairfield Manufacturing Company, Inc.

First in Custom Gears and Drive Systems

www.fairfieldmfg.com

| | Spindle | | | Hub | | |
|-----------|-------------|----------------------|--------------------------|-----------------------------|----------------|-----------------------------------|
| | Motor Mount | Flange Mounting Dia. | Motor B.C. | Frame B.C. | Mounting Dia. | Flange B.C. |
| B2 | SAE "B" | 7.000 6.995 | (4) 1/2-13 5.750 B.C. | (6) 5/8-11 8.250 B.C. | 9.500 9.490 | (9) .642/.639 thru 11.125 B.C. |
| B3 | SAE "B" | 7.000 6.995 | (4) 1/2-13 5.750 B.C. | (6) .656 thru 8.250 B.C. | 9.500 9.490 | (9) .642/.639 thru 11.125 B.C. |